

# **OIL ANALYSIS REPORT**

# **COMPACTOR/All Terrain Dumptruck**

ADT-9

2 Diesel Engine

{not provided} (--- GAL)

# Sample Rating Trend



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 40 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

### **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Client Info   KFS0006009   Client Info   T773   Client Info   Changed   Client Info					Apr2024		
Client Info	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Client Info	Sample Number		Client Info		KFS0006009		
Machine Age   hrs   Client Info   1773			Client Info		16 Apr 2024		
Oil Age	Machine Age	hrs	Client Info		-		
Contamped   Client Info   Changed   Changed   Contamped   Contam	Oil Age	hrs	Client Info		500		
Fuel	Oil Changed		Client Info		Changed		
Fuel	Sample Status				NORMAL		
Water         WC Method         >0.2         NEG             Glycol         WC Method         Imitibase         current         history1         history2           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >100         63             Chromium         ppm         ASTM D5185m         >20         2             Nickel         ppm         ASTM D5185m         >4         1             Silver         ppm         ASTM D5185m         >4         1             Silver         ppm         ASTM D5185m         >40         2             Silver         ppm         ASTM D5185m         >40         2             Lead         ppm         ASTM D5185m         >40         2             Copper         ppm         ASTM D5185m         >10             Tin         ppm         ASTM D5185m         <0	CONTAMINATIO	N	method	limit/base	current	history1	history2
WEAR METALS	Fuel		WC Method	>5	<1.0		
WEAR METALS	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>100	63		
Titanium	Chromium	ppm	ASTM D5185m	>20	2		
Silver	Nickel	ppm	ASTM D5185m	>4	1		
Aluminum         ppm         ASTM D5185m         >20         4             Lead         ppm         ASTM D5185m         >40         2             Copper         ppm         ASTM D5185m         >330         10             Tin         ppm         ASTM D5185m         >15         <1	Titanium	ppm	ASTM D5185m		<1		
Lead	Silver	ppm	ASTM D5185m	>3	0		
Copper         ppm         ASTM D5185m         >330         10             Tin         ppm         ASTM D5185m         >15         <1	Aluminum	ppm	ASTM D5185m	>20	4		
Tin	Lead	ppm	ASTM D5185m	>40	2		
Vanadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         <1             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         41             Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         47             Manganese         ppm         ASTM D5185m         1             Magnesium         ppm         ASTM D5185m         1628             Phosphorus         ppm         ASTM D5185m         1628             Zinc         ppm         ASTM D5185m         2605             Sulfur         ppm         ASTM D5185m         2605             CONTAMINANTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D5185m         >20         3	Copper	ppm	ASTM D5185m	>330	10		
ADDITIVES	Tin	ppm	ASTM D5185m	>15	<1		
ADDITIVES	Vanadium	ppm	ASTM D5185m		0		
Boron	Cadmium	ppm	ASTM D5185m		<1		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         47             Manganese         ppm         ASTM D5185m         1             Magnesium         ppm         ASTM D5185m         484             Calcium         ppm         ASTM D5185m         1628             Phosphorus         ppm         ASTM D5185m         839             Zinc         ppm         ASTM D5185m         2605             Sulfur         ppm         ASTM D5185m         2605             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         18             Sodium         ppm         ASTM D5185m         >20         3             Potassium         ppm         ASTM D5185m         >20         3             INFRA-RED         method         limit/base         current         history1         history2           Soot %         *6 **ASTM D	Boron	ppm	ASTM D5185m		41		
Manganese         ppm         ASTM D5185m         1             Magnesium         ppm         ASTM D5185m         484             Calcium         ppm         ASTM D5185m         1628             Phosphorus         ppm         ASTM D5185m         839             Zinc         ppm         ASTM D5185m         2605             Sulfur         ppm         ASTM D5185m         2605             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         18             Sodium         ppm         ASTM D5185m         >20         3             Potassium         ppm         ASTM D5185m         >20         3             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.2             Sulfation	Barium	ppm	ASTM D5185m		0		
Magnesium         ppm         ASTM D5185m         484             Calcium         ppm         ASTM D5185m         1628             Phosphorus         ppm         ASTM D5185m         839             Zinc         ppm         ASTM D5185m         2605             Sulfur         ppm         ASTM D5185m         2605             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         18             Sodium         ppm         ASTM D5185m         >20         3             Potassium         ppm         ASTM D5185m         >20         3             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7624         >20         9.1             Sulfation         Abs/.1mm         *ASTM D7415         >30         22.6	Molybdenum	ppm	ASTM D5185m		47		
Calcium         ppm         ASTM D5185m         1628             Phosphorus         ppm         ASTM D5185m         839             Zinc         ppm         ASTM D5185m         2605             Sulfur         ppm         ASTM D5185m         2605             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         18             Sodium         ppm         ASTM D5185m         >20         3             Potassium         ppm         ASTM D5185m         >20         3             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.2             Sulfation         Abs/.1mm         *ASTM D7415         >30         22.6             FLUID DEGRADATION         method         limit/base         current         history1         history2 <td>Manganese</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th>1</th> <td></td> <td></td>	Manganese	ppm	ASTM D5185m		1		
Phosphorus	Magnesium	ppm			484		
Zinc	Calcium	ppm	ASTM D5185m		1628		
Sulfur         ppm         ASTM D5185m         2605             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         18             Sodium         ppm         ASTM D5185m         >20         3             Potassium         ppm         ASTM D5185m         >20         3             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.2             Nitration         Abs/cm         *ASTM D7624         >20         9.1             Sulfation         Abs/.1mm         *ASTM D7415         >30         22.6             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         21.8	Phosphorus	ppm	ASTM D5185m		839		
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         18             Sodium         ppm         ASTM D5185m         <1	Zinc	ppm	ASTM D5185m		1017		
Silicon   ppm   ASTM D5185m   >25   18	Sulfur	ppm	ASTM D5185m		2605		
Sodium	CONTAMINANTS	3	method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         3             INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >3         0.2             Nitration         Abs/cm         *ASTM D7624         >20         9.1             Sulfation         Abs/.1mm         *ASTM D7415         >30         22.6             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         21.8	Silicon			>25			
INFRA-RED	Sodium	ppm					
Soot %         *ASTM D7844         >3         0.2             Nitration         Abs/cm         *ASTM D7624         >20         9.1             Sulfation         Abs/.1mm         *ASTM D7415         >30         22.6             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         21.8		ppm	ASTM D5185m	>20	3		
Nitration         Abs/cm         *ASTM D7624         >20         9.1             Sulfation         Abs/.1mm         *ASTM D7415         >30         22.6             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         21.8	INFRA-RED		method	limit/base		history1	history2
Sulfation         Abs/.1mm         *ASTM D7415         >30         22.6             FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         21.8	Soot %			>3	0.2		
FLUID DEGRADATION method limit/base current history1 history2  Oxidation Abs/.1mm *ASTM D7414 >25 21.8	Nitration	Abs/cm	*ASTM D7624	>20			
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6		
	FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 8.17	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.8		
	Base Number (BN)	mg KOH/g	ASTM D2896		8.17		



# **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

Lab Number : 06155267 Unique Number : 10990690

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KFS0006009 Test Package : MOB 2

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received : 19 Apr 2024 **Tested** : 22 Apr 2024

Diagnosed : 22 Apr 2024 - Wes Davis

US 38401 Contact: BEN HARNESS ben@slectharness.com T: (615)733-4480

855 N JAMES CAMPBELL BLVD

 $^st$  - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: HARCOLTN [WUSCAR] 06155267 (Generated: 04/23/2024 00:27:30) Rev: 1

Submitted By: BILL ENYART

**HARNESS LLC** 

COLUMBIA, TN